AGE/SSD/CBE/00040/20-21 dt 19/12/2020

Code: 012-20-000120
No: 1st & Final Bill
Division: Dasarahalli Division

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(FOR OTHER WORKS)
Shettyhalli Sub-division

Est Cost 100.00Lakhs
TS. No:
Date:

Bill Received No. Date Cash Book vr.No. Date:
Scheduled Docket No Head of Account

Name of work :- Drilling of Borewells and Installation of Pumps and motors with accessories in Ward No12, Shettyhalli.

Name of Contractor and full address: M/s Nagasandra Shamanna RamaRao (RAJALAKSHMI ROCK DRILLERS). RUKMINI NAGAR, NAGASANDRA, TUMKUR ROAD, BANGALORE-560073.

Reference to agreement No EE/DD/WO/ 90//2019-20 Date 27-08-2020

Certified that the measurement were taken by me on dated:- 14/10/2020 and recorded as Page 4893 to 4896/2020 of measurement Book No: and that the work is satisfactorily executed.

Rama Rao
Contractor

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
Officer-in-charge of work
ವಾರ್ಡ್ ನಂ. 12, ಶೆಟ್ಟಿಹಳ್ಳಿ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.

Certified that the measurement were checked by me on 14/10/2020 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account if have been actually brought to the of the work and the contractor has not previously received any advance on this security. These Materials are of an Imperishable nature and are all required by the contractor for immediate use on the work in connection with items for which rates for finished work have been agreed upon. A formal agreement signed and executed by the contractor is recorded in the office.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
Sub-Division Officer
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

II Memorandum of Payment

1	Total value of work done or supplies made as per Account with in	.....	9715439
2	Deduct amount to be held in reserve being.....percent Rs.....	.....	
3	Balance	.....	
4	Deduct Payments		1st and Final Bill → 9735627 = ∞
	a) Amount of previous payment as in the Office Cash Book vr. No.....Dated.....S.D.No.....	.....	IT → 19413 = ∞
	Amount adjusted towards cash advance recovery of		Lwc → 9756 = ∞
	b) Payments cost of store or other materials supplied		CST → 9736 = ∞
	Now made Recovery of amount Creditable to his/other work		Roy ST → 86925 = ∞
	Amount paid on this bill be cheque/cash		SGST → 86925 = ∞
			(-) 475655 = ∞
5	Balance being unpaid value of work done held in reverse TOTAL	.....	
6	Deduct cash advance made on the Office Cash Book Vr.No..... Dated.....less adjustment	.....	
7	No amount due to or from contractor	.....	
	Unadjustment items	.....	
8	Advance to contractor for materials brought site (as detailed) within		Net Amount → 9259972 = ∞
	Value of Government materials supplied	.....	
	Total Amount adjusted	.....	9239784-

Rama Rao
Contractor's Signature

(for use in the office)

Received Rs.....in words.....
.....
.....by cash and by adjustment

Payment as per memorandum.
(in final settlement of all demands)

Witness:
1
2

Receipt Stamp

Rama Rao
Date Signature of Contractor

9715439

Audited and admitted for Rs. 9735627 = ∞
Passed by Cheque for Rs. 9259972 = ∞
Ninety two ~~thousand~~ Lakh fifty nine ~~hundred~~ Seventy two only
by adj. 475655 = ∞
Dated Executive Engineer
Accounts Superintendent
P.R.W.D. Dasarahalli Division

Paid by me by Cheque No.....Date.....
Cash Rs.....
Date.....Initial of officer making payment

Gross - 9715439-
Ded - 475655-
net - 9239784-

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Name of Work:- Drilling of Borewells and Installation of Pumps and motors with accessories in Ward No12, Shettyhalli

JOB CODE: 012-20-000120

SL No	Items grouped under sub-heads and sub-works of the estimate	Unit	Previous			Present Measurement			Total Up-to-date	
			Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
1	Geophysical survey geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the hand pumps, MWS or PWSS by vertical electrical sounding by adopting venner or schlumbergers's method including recconnaisance suevey of geological formation Geophysical investigation of existing ground Water in the vicinity. its quality , quality & acceptabality of the users indicating the location of the site recommendeddepth of casing pipe required to seal the tope unconsolidated formation including an extra depth 1.0 metre in consolidated formation for aquire proposed to be tapped propable yield and other information required including transportation of instrument and accessories to work site, engating technical personal and labour etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Each				10	3937.56	39375.60	10	39375.60
2	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified., etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.0.00 to 50.00 mtrs	Rmtr				500	362.62	181310.00	500	181310.00
3	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified., etc., complete as per specifications and as per the direction of Engineer-in-charge of the work. 50mtr to 100.00 mtr	Rmtr				500	461.89	230945.00	500	230945.00
4	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified., etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.100.00 to 150.00 mtr	Rmtr				500	476.52	238260.00	500	238260.00
5	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified., etc., complete as per specifications and as per the direction of Engineer-in-charge of the work. 150.00 to 200.00 mtr	Rmtr				500	560.12	280060.00	500	280060.00

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ. 12, ಶೆಟ್ಟಿಹಳ್ಳಿ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.
14/10/2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

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SL No	Items grouped under sub-heads and sub-works of the estimate	Unit	Previous			Present Measurement			Total Up-to-date	
			Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
6	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified., etc., complete as per specifications and as per the direction of Engineer-in-charge of the work. 200.00 to 250.00 mtr	Rmtr				500	662.53	331265.00	500	331265.00
7	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified., etc., complete as per specifications and as per the direction of Engineer-in-charge of the work. 250.00 to 300.00 mtr	Rmtr				500	731.5	365750.00	500	365750.00
8	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified., etc., complete as per specifications and as per the direction of Engineer-in-charge of the work. 300.00 to 350.00 mtr	Rmtr				500	862.33	431165.00	500	431165.00
9	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified., etc., complete as per specifications and as per the direction of Engineer-in-charge of the work350.00 to 400.00 Mtr	Rmtr				500	940.5	470250.00	500	470250.00
10	Providing and Fixing 250mm dia PVC pipeetc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Mtr				198	2302.54	455902.92	198	455902.92
11	Supply of ISI Mark 175mm Nominal bore ,plain end steel Casing pipe- grade of steel Fee 410 of wall thickness 5.4 mm thick confirming to IS 1387/1933 and manufactured by basic open hearth electric or basic oxygen process in random lenth of 5 to 7mtrs. Both ends threaded Confirming to IS 554/1985, One end fixed with a Socket Confirming to IS 4270:2001 and the other end with Screwed pipes . All pipes shall be reasonably free from defectes. The tube shall be reasonably straight should be with ISI marking, weighing 25.10kg/mtr.complete as per specifications and as per the direction of Engineer-in-charge of the work.	Rmtr				444	1384.63	614775.72	444	614775.72
12	Providing 175 mm dia MS Collar etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				10	156.75	1567.50	10	1567.50
13	Providing 175 mm dia MS Cap etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				10	104.5	1045.00	10	1045.00

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ. 12, ಶೆಟ್ಟಿಹಳ್ಳಿ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.
14/10/2020

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು

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Sl No	Items grouped under sub-heads and sub-works of the estimate	Unit	Previous			Present Measurement			Total Up-to-date	
			Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
14	Providing Supplying to work site and fixing submersible pump sets of 150mm dia suitable for borewell and confirming to IS 8034:3phase SS Bowl & Impeller with Low Volt motor as per Specifications as per necessary ammendments and instructions complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				10	81873.66	818736.60	10	818736.60
15	Supplying, laying, jointing testing and commissioning of GI pipes confirming to IS 1239:1990 with latest amendments, including fising collars, Elbows, Tees, bends, Glad Cocks and other Fittings (Excluding Cost of Specials) with Cuts and Threads wherever necessary including conveying the materials to workspot, including testing for water tightness with all lead and lifts etc complete (Contractor shall make his own arrangements for procuring water for testing) Class-C -Heavy 50mm Dia etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Rmtr				3000	483.84	1451520.00	3000	1451520.00
16	Suppy and fixing 50mm dia GI collar Heavy duty etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Nos				500	188.1	94050.00	500	94050.00
17	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990.3C X 6.0Sq.mm etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Rmtr				6200	214.23	1328226.00	6200	1328226.00
18	Supply and fixing 50mm dia GI Union with ISI mark etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				10	233.77	2337.70	10	2337.70
19	Supply and fixing 50mm dia GI Nipple with ISI mark (PWP & IWTD B.C. 2016-17 = P. No. XXXIX)	No				30	108.99	3269.70	30	3269.70
20	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 With ISI Mark and as per its latest amendments 50mm Dia etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				10	1227.88	12278.80	10	12278.80
21	Supplying and fixing 50mm dia GI Elbow with ISI mark etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				30	116.83	3504.90	30	3504.90
22	Supplying and delivery at site brand new star/Essen/Lotus/Sun-Shines/Adarsh/ G.K.Controls Best Indigenous make combined energy meter-cum-control panel board unit minimum mechanically strong suitable for operation on 3HP 50HZ 380/440 Volts AC supply with spring loaded latch locking Device with a key Ribbs should be provided. contron panal board unit suitable for operation on 3HP 50HZ 380/440 Volts AC shall be consists Etc. complete the panal board shall be fabricated in single unit in the above components panal board suitable pump set 10HP to 20HP with stae delta starter out door panel board up to 20HP	No				10	21945	219450.00	10	219450.00

ಸಹಾಯಕ ಅಭಿಯಂತರರು 14/10/2020
ವಾರ್ಡ್ ನಂ. 12, ಶೆಟ್ಟಿಹಳ್ಳಿ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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SL No	Items grouped under sub-heads and sub-works of the estimate	Unit	Previous			Present Measurement			Total Up-to-date	
			Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
23	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions	Job				10	5904.24	59042.40	10	59042.40
24	Labour charges for erection of outdoor type panel board and meter board units with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions	Job				10	1251.91	12519.10	10	12519.10
25	Supplying of TPST with rewirable porcelain channels in SM enclosure 32 amps	No				10	1881	18810.00	10	18810.00
26	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs crews.20"x20"x2.5"	No				10	305.14	3051.40	10	3051.40
27	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 230/440v A.C. 50 Hz 12/24v D.C.	No				10	449.35	4493.50	10	4493.50
28	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machineries like induction motor. 2KVAR	No				10	418	4180.00	10	4180.00
29	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6 to 32amps	No				10	1792.18	17921.80	10	17921.80
30	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia	No				10	3134.69	31346.90	10	31346.90
31	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm dia	Rmtr				40	350.08	14003.20	40	14003.20
32	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975	Rmtr				450	156.75	70537.50	450	70537.50
33	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) cutting road surface in hard soil	Rmtr				400	106.59	42636.00	400	42636.00
34	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.6 sqmm to 16 sqmm.	Rmtr				450	12.41	5584.50	450	5584.50
35	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc	No				30	282.15	8464.50	30	8464.50

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ. 12, ಶೆಟ್ಟಿಹಳ್ಳಿ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.
14/10/2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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SL No	Items grouped under sub-heads and sub-works of the estimate		Previous			Present Measurement			Total Up-to-date	
		Unit	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
36	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers	No				30	181.83	5454.90	30	5454.90
37	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the following classification.(RDWS SR 2019-20Pg No.08 I.No.2.26)Cutting Asphalt Road Surface	Cum				54	566.39	30585.06	54	30585.06
38	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the following classification.(RDWS SR 2019-20Pg No.08 I.No.2.26)Cutting in cement concrete road Surface	Cum				22.5	1155.77	26004.83	22.5	26004.83
39	Earthwork excavation for pipeline trenches including depositing on bank upto a lead of 50 mtrs and depth up to 2.00 mtrs. Including shoring and strutting, danger lighting and using sight rails and boning rods at every 100 mtrs. Wherever necessary as directed in the following strata. (Manual Means) in ordinary soil	Cum				810	273.79	221769.90	810	221769.90
40	Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete. (RDWS SR 2019-20Pg No.62 I.No.10.01.1)(a) 63mm dia 6kg/cm2	Rmtr				2000	161.98	323960.00	2000	323960.00
41	Refilling the basement and pipeline trenches with selected available earth from trench excavation including watering, Consolidation in layers of 15 cm thick including disposing of the surplus earth with all lead & lifts. (Compacting with vibro roller)	Cum				256.5	107.64	27609.66	257	27609.66
42	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments 50mm dia	Each				20	1243.55	24871.00	20	24871.00
	NET TOTAL							85,27,892		85,27,892
	GST 12%							10,23,347		10,23,347
	BESCOM CHARGES	each				10	18450	1,84,500	10	1,84,500.00
	GRAND TOTAL							97,35,739		97,35,739

Rupees in words: Ninety seven lakh thirty five thousand seven hundred and thirty nine.

Certificate

1 The contractor work done and Satisfactorly
2 Departmental Issues Nill
3 The Amount chargeble to P2178 works sanctioned my Hon. Mayor.

Asst. Engineer
Ward no 12, Shettyhalli
BBMP Bangalore
14/10/2020

Asst, Executive Engineer
Ward no 12, Shettyhalli Sub Div
Bangalore-
14/10

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